## WHAT IS CLAIMED IS:

- 1. A vehicle air bag for use with an on-board inflator mechanism, said vehicle air bag having at least one panel of air bag fabric, said fabric comprising:
  - a fabric substrate; and
- a residue formed on said fabric substrate by dipping said fabric substrate in an aqueous solution so as to achieve a desired low permeability.
- The vehicle air bag as recited in claim 1, wherein said residue bonds with said fabric substrate.
- 3. The vehicle air bag as recited in claim 1, wherein said fabric substrate is dipped multiple times in said aqueous solution to lower permeability.
- 4. The vehicle air bag as recited in claim 1, wherein the permeability of said fabric substrate is adjusted by varying the concentration of said aqueous solution.
- 5. The vehicle air bag as recited in claim 1, wherein said fabric substrate is a multifilament yarn having a size of between 210 and 840 denier.
- 6. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 210 denier and a thread count range of

between 64 and 74.

- 7. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 315 denier and a thread count range of between 55 and 65.
- 8. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 420 denier and a thread count range of between 42 and 52.
- 9. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 525 denier and a thread count range of between 36 and 46.
- 10. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 630 denier and a thread count range of between 33 and 43.
- 11. The vehicle air bag as recited in claim 5, wherein said fabric substrate has a size of approximately 840 denier and a thread count range of between 15 and 25.
- 12. A system for adjusting the permeability of a fabric for use in a motor vehicle air bag, said system comprising:

a bath having an aqueous solution and being dimensioned to receive a fabric substrate such that

the fabric substrate may be fully immersed in said aqueous solution;

a tenter oven for drying said fabric upon exiting from said bath;

means for conveying said fabric from said bath and to said drying device; and

whereby said aqueous solution forms a residue on said fabric substrate to achieve a desired permeability.

- 13. The system as recited in claim 12, wherein said conveying means passes the fabric substrate through said bath and said tenter oven at least two times to achieve a lower permeability.
- 14. A method for adjusting the permeability of a fabric for use in a motor vehicle air bag, said method comprising the steps of:
  - (a) dipping a fabric substrate in an aqueous
    solution;
  - (b) conveying said fabric substrate to a drying device; and
  - (c) drying said fabric substrate sufficiently to evaporate the water component of said aqueous solution so that a residue is formed on said fabric substrate.

- 15. The method as recited in claim 14, wherein steps (a), (b) and (c) are performed multiple times to achieve a lower permeability for said fabric substrate.
- 16. The method as recited in claim 14, wherein the concentration of said aqueous solution is adjusted to control the permeability of said fabric substrate.
- 17. The method as recited in claim 16, wherein the concentration of said aqueous solution is increased to lower permeability of said fabric substrate.
- 18. The system as recited in claim 16, wherein said aqueous solution is an aliphatic urethane.
- 19. The system as recited in claim 14, wherein said aqueous solution comprises a halogenated polymer.
- 20. The system as recited in claim 14, wherein said aqueous solution comprises a film forming rubber polymer.